

Name: _____

at1113exam: Expand, factor, and solve quadratics (v333)

1. Solve the equation.

$$(7x + 5)(9x + 4) = 0$$

2. Expand the following expression into standard form.

$$(7x + 2)(3x + 5)$$

3. Expand the following expression into standard form.

$$(9x + 7)(9x - 7)$$

4. Expand the following expression into standard form.

$$(3x - 5)^2$$

5. Solve the equation with factoring by grouping.

$$15x^2 + 18x + 10x + 12 = 0$$

6. Solve the equation.

$$9x^2 + 24x - 29 = 4x^2 - 2x - 5$$

7. Factor the expression.

$$x^2 - 10x + 24$$

8. Factor the expression.

$$64x^2 - 49$$